

FIG. 1

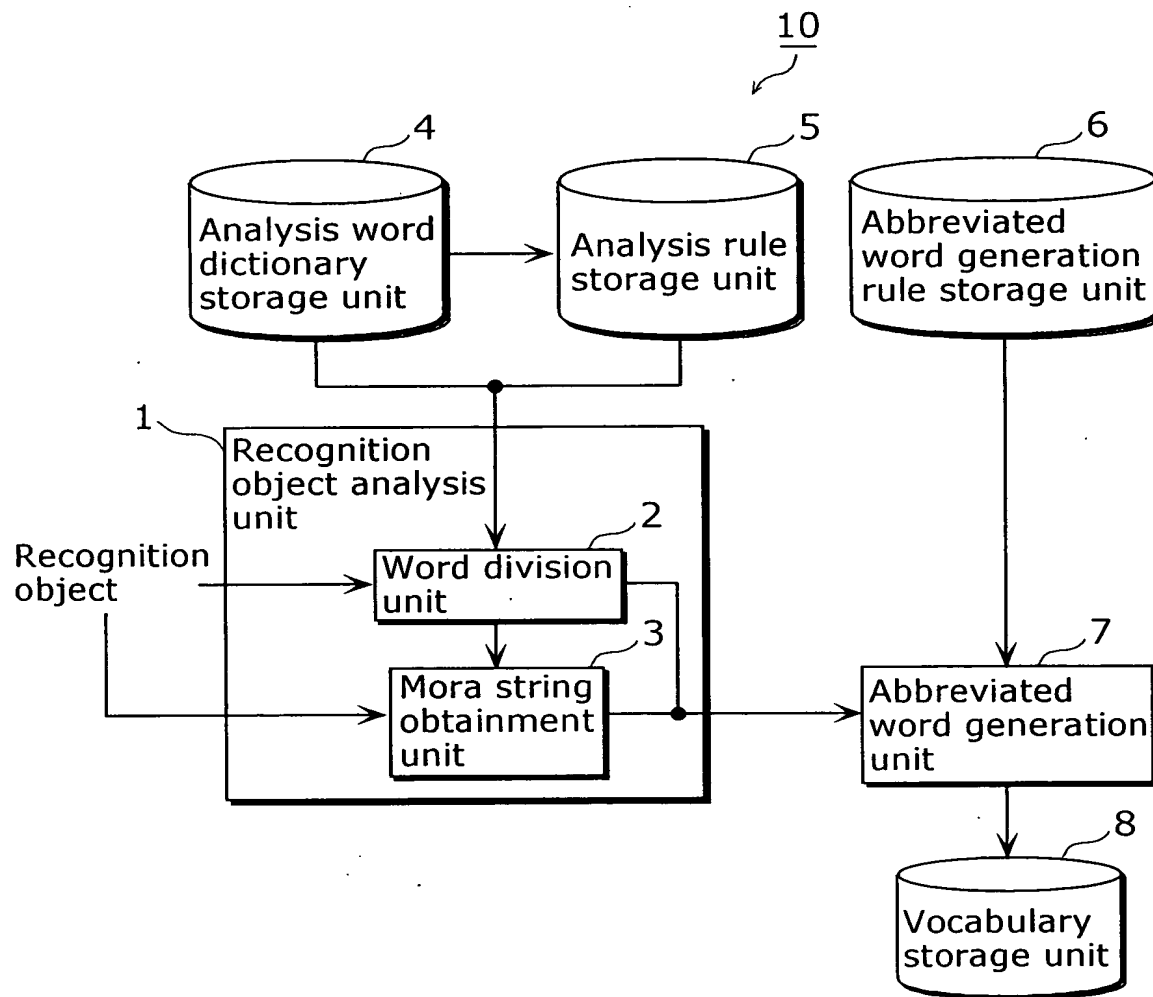


FIG. 2

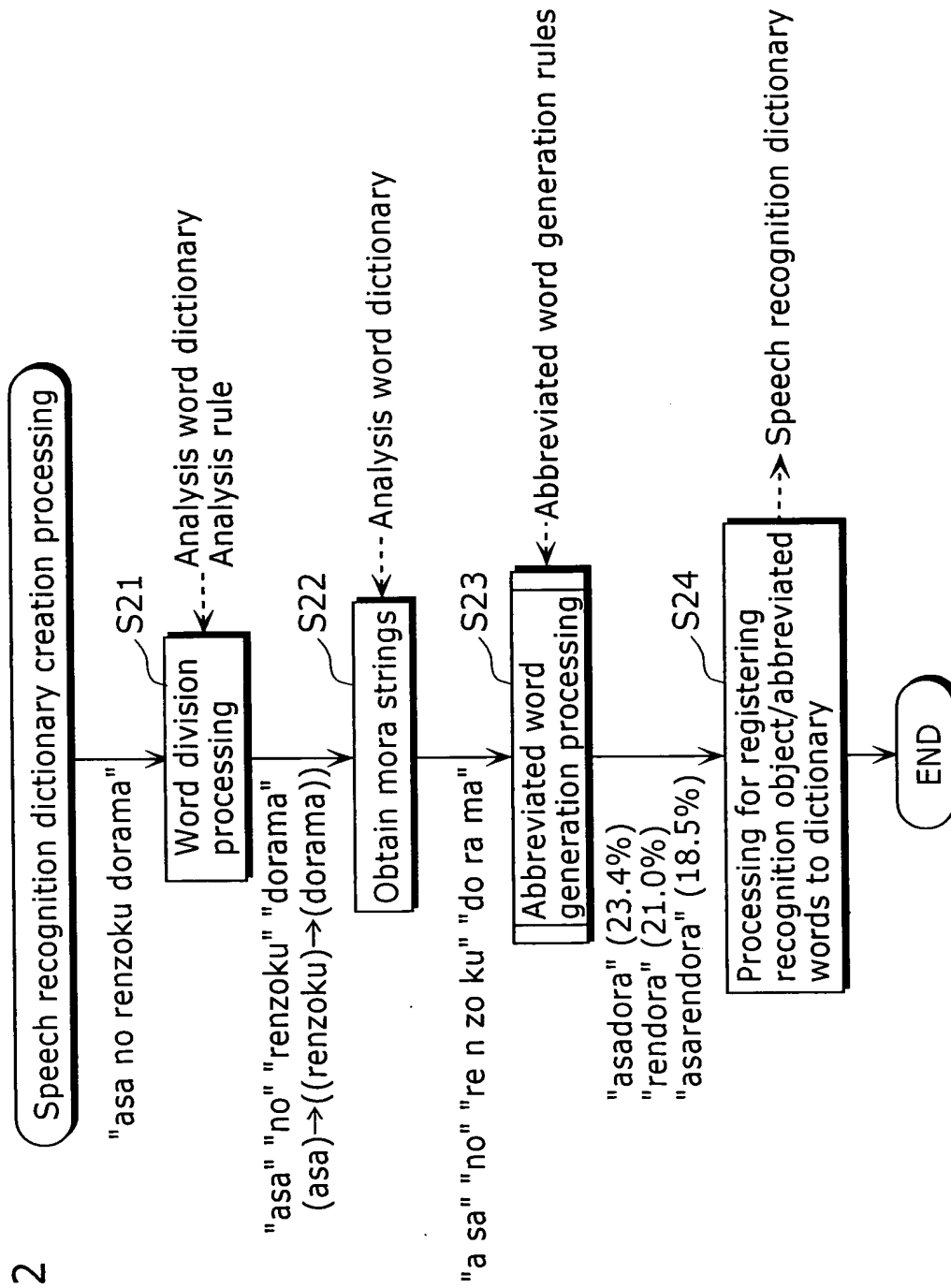


FIG. 3

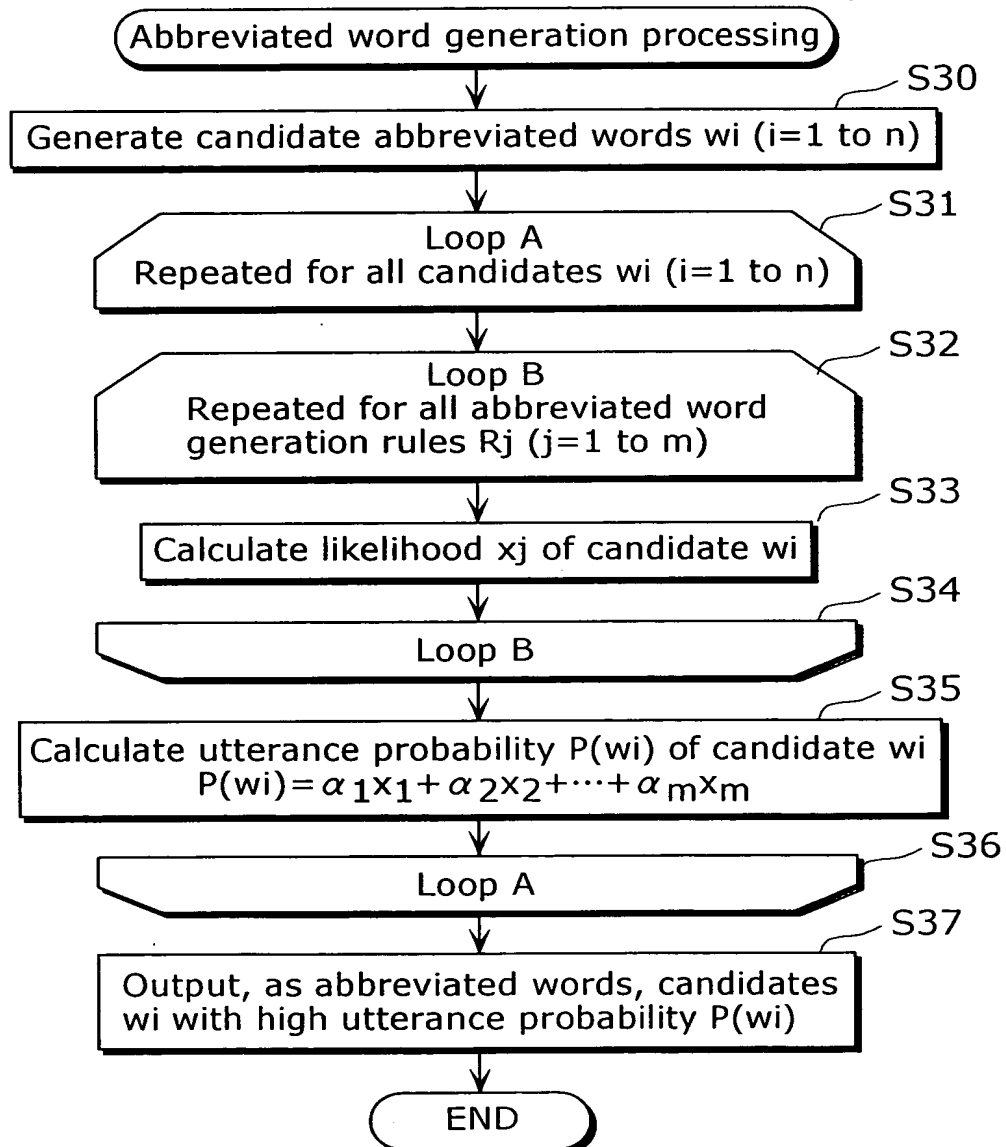
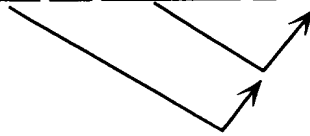


FIG. 4

Asa no renzoku dorama



renzoku dorama

asa dorama

asa renzoku dorama



Candidate abbreviated word	Likelihood x1 for Rule 1	Likelihood x2 for Rule 2	Likelihood x3 for Rule 3	...	Utterance probability
<u>renzoku dorama</u>	0.064	0.032	0.024		0.041
renzoku dora	0.064	0.047	0.024		0.032
ren dorama	0.102	0.082	0.050		0.082
ren dora	0.102	0.128	0.050		0.234
⋮	⋮	⋮	⋮		⋮
<u>asa dorama</u>	0.102	0.072	0.050		0.104
asa dora	0.102	0.145	0.050		0.210
asa do	0.102	0.044	0.050		0.021
⋮	⋮	⋮	⋮		⋮
<u>asa renzoku dorama</u>	0.054	0.033	0.024		0.008
<u>asa renzoku dora</u>	0.054	0.089	0.024		0.054
asa ren dorama	0.100	0.095	0.050		0.083
asa ren dora	0.100	0.117	0.050		0.185
⋮	⋮	⋮	⋮		⋮

FIG. 5

Abbreviated word generation rules 6a

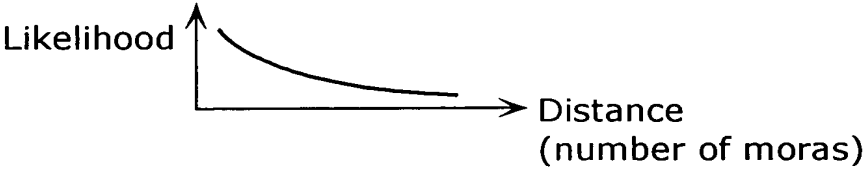
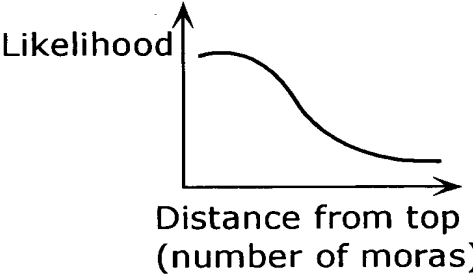
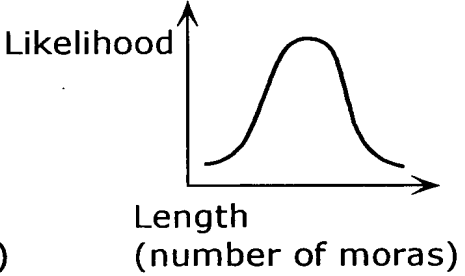
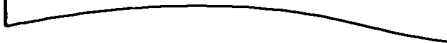

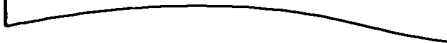

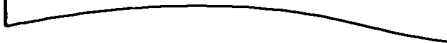

<p>Rule 1 (Weight : <math>\alpha_1</math>)</p>	<p>[Dependency relationship]</p> <p>Modifier and modified word are put in pair Distance between modifier and modified word vs likelihood</p> 				
<p>Rule 2 (Weight : <math>\alpha_2</math>)</p>	<p>[Partial mora strings]</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Position of partial mora string</p>  <p>Distance from top (number of moras)</p> </div> <div style="text-align: center;"> <p>Length of partial mora string</p>  <p>Length (number of moras)</p> </div> </div>				
<p>Rule 3 (Weight : <math>\alpha_3</math>)</p>	<p>[Concatenation of phonemes]</p> <table border="1" data-bbox="488 1402 1214 1675"> <tr> <td data-bbox="488 1402 932 1598"> <p>Unnatural concatenation (Likelihood: 0.001)</p> </td><td data-bbox="932 1402 1214 1598"> <p>gi→na ku→do syo→ka</p> </td></tr> <tr> <td data-bbox="488 1598 932 1675">  </td><td data-bbox="932 1598 1214 1675">  </td></tr> </table>	<p>Unnatural concatenation (Likelihood: 0.001)</p>	<p>gi→na ku→do syo→ka</p>		
<p>Unnatural concatenation (Likelihood: 0.001)</p>	<p>gi→na ku→do syo→ka</p>				
					

FIG. 6

Speech recognition dictionary 8a

Recognition object	Abbreviated word	Utterance probability
"asa no renzoku dorama"	rendora	0.234
	asadora	0.210
	asarendora	0.185
⋮	⋮	⋮

FIG. 7

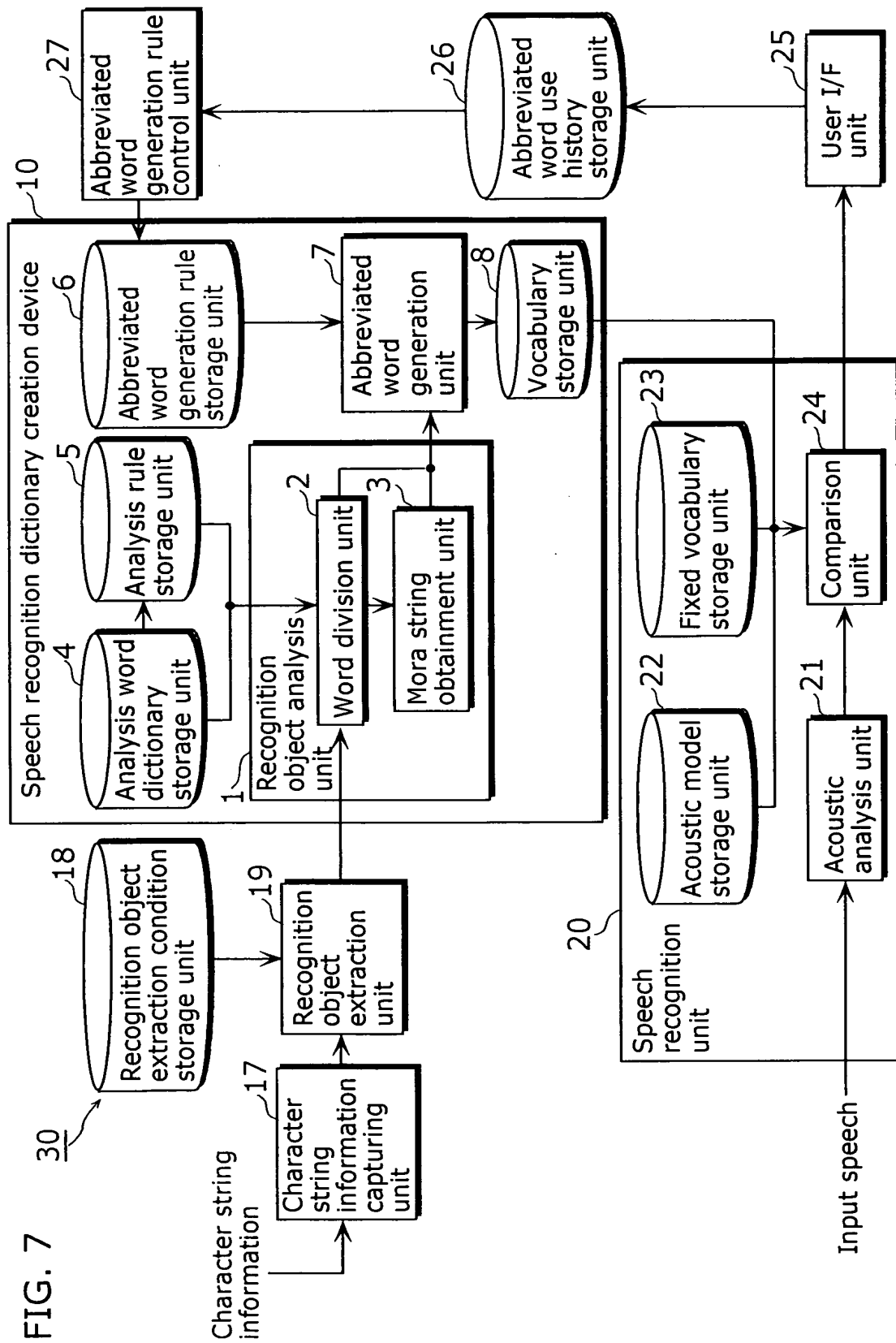


FIG. 8

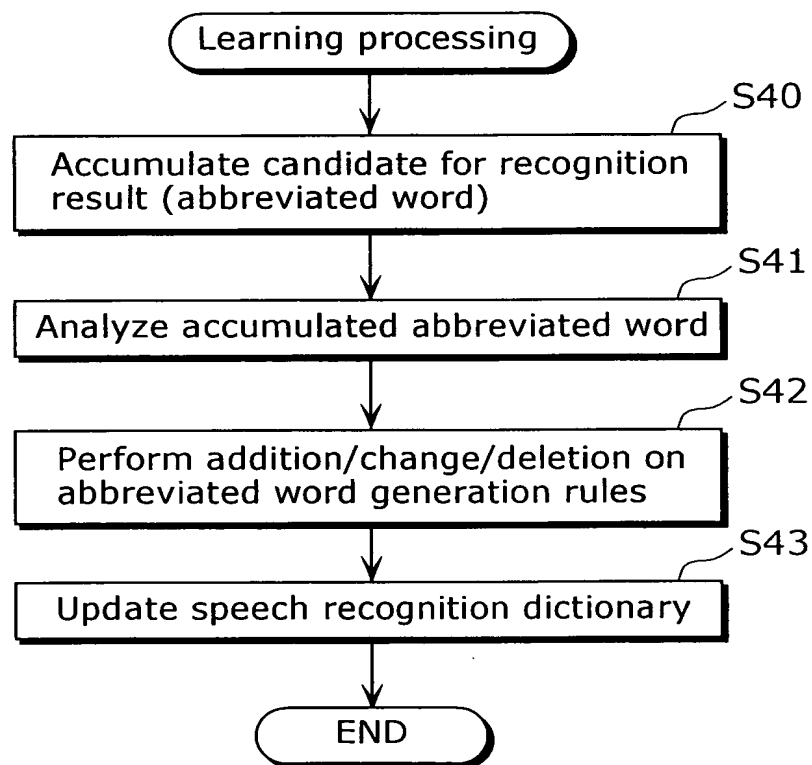




FIG. 9A

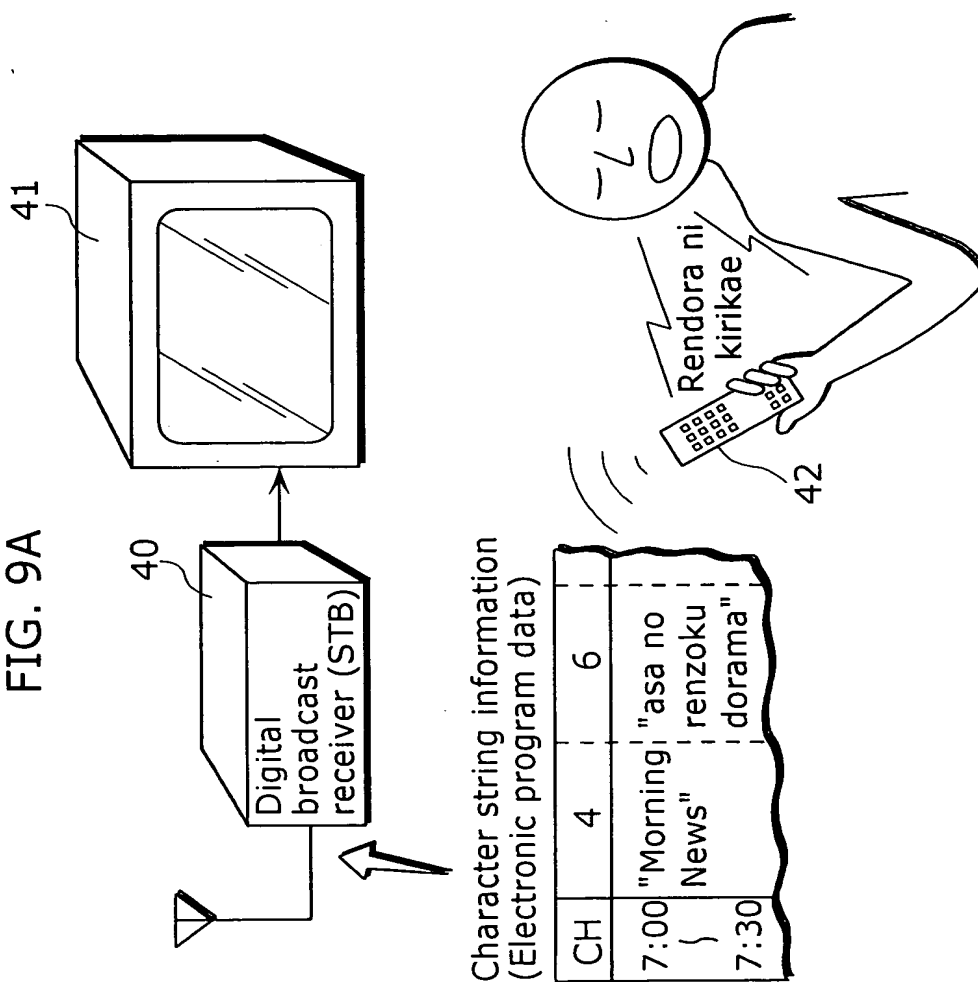


FIG. 9B

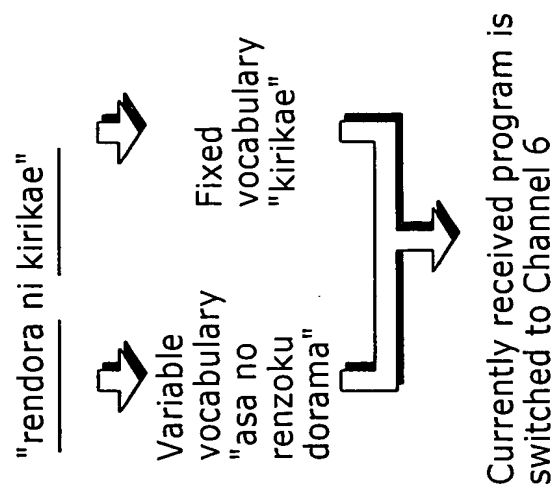


FIG. 10A

Recognition object	Abbreviated word
全国人民代表大会	全人代
北京大学	北大
清华大学	清大
公共汽车	公車
:	:

FIG. 10B

Recognition object	Abbreviated word
Electric intelligence	ELINT
Elizabeth	Eliz Eliza
Eleanor	Ella
Frankfurter	Frank
Coop for American Remittance Europe	CARE
James	Jim
Joseph	Jock
Joseph	Joe
Kitten	Kit
Mississippi	Miss
Tactical an navigation	TACAN
:	: